**Software Requirements Specification (SRS)**

**Project Name:** Register Page Module(nopCommerce demo)

**Version:** 1.0

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**Document Status:** Draft

**1. Introduction**

**1.1 Purpose**

The purpose of this document is to define the functional and non-functional requirements for the **Register Page** of the nopCommerce demo application. This SRS will serve as a reference for testers to design and execute test cases and for developers to ensure the system meets expected requirements.

**1.2 Scope**

* **Application Under Test (AUT):** nopCommerce Demo Register Page
* **Objective:** Validate that the registration process works correctly with all required fields, validations, and optional features (e.g., newsletter subscription).
* **Modules Covered:** Register Page only.
* **Testing Areas**: Functional Testing, UI Testing, Validation Testing, Negative Testing, and Usability Testing.

**1.3 Definitions, Acronyms, Abbreviations**

* **SRS**: Software Requirements Specification
* **AUT**: Application Under Test
* **UI**: User Interface
* **UX**: User Experience

**2. Overall Description**

**2.1 Product Perspective**

The Register Page allows new users to create an account by providing mandatory and optional details. Once registered, the user can log in and access other features of the application.

**2.2 User Characteristics**

* Users are expected to have basic computer literacy.
* Users may register from different geographic locations and devices.
* No advanced technical knowledge is required.

**2.3 Constraints**

* Internet connection required.
* Works best on modern browsers (Chrome, Edge, Firefox).
* Fields must comply with nopCommerce default validation rules.

**3. Functional Requirements**

|  |  |  |
| --- | --- | --- |
| **ID** | **Requirement** | **Description / Expected Behavior** |
| FR-01 | First Name | Accepts alphabetic characters; mandatory field |
| FR-02 | Last Name | Accepts alphabetic characters; mandatory field |
| FR-03 | Gender | Allows user to select “Male” or “Female”; optional |
| FR-04 | Email | Accepts valid email format (e.g., user@example.com); must be unique |
| FR-05 | Company Name | Optional field; accepts text input |
| FR-06 | Newsletter | Checkbox field; optional, default checked |
| FR-07 | Password | Minimum 6 characters, must include uppercase, lowercase, numeric, and special character |
| FR-08 | Confirm Password | Must exactly match Password field |
| FR-09 | Register Button | Submits the form; successful registration displays confirmation message |
| FR-10 | Error Messages | Display appropriate error messages when validations fail |

**4. Non-Functional Requirements**

|  |  |  |
| --- | --- | --- |
| **ID** | **Requirement** | **Description** |
| NFR-01 | Performance | Page should load within 2 seconds on a standard internet connection |
| NFR-02 | Usability | Form labels and error messages must be clear and user-friendly |
| NFR-03 | Compatibility | Should work seamlessly across Chrome, Firefox, and Edge |
| NFR-04 | Security | Password input must be masked; user data must not be exposed |
| NFR-05 | Accessibility | Input fields must be properly labeled for screen readers |

**5. Use Cases**

**Use Case 1: Successful Registration**

**Actors:** User  
**Precondition:** Register page is accessible  
**Steps:**

1. User opens Register Page
2. Fills in valid First Name, Last Name, Email, Password, Confirm Password
3. (Optional) Selects/unselects Newsletter checkbox
4. Clicks “Register”  
   **Expected Result:** Account is created successfully; confirmation message displayed

**Use Case 2: Invalid Email**

**Steps:** Enter abc@ in Email field -> Click Register  
**Expected Result:** Error message: “Wrong email”

**Use Case 3: Password Mismatch**

**Steps:** Enter different values in Password and Confirm Password → Click Register  
**Expected Result:** Error message: “The password and confirmation password do not match.”

**Use Case 4: Newsletter Subscription**

**Steps:** Keep Newsletter checked → Register  
**Expected Result:** User account created with newsletter subscription active

**Steps:** Uncheck Newsletter → Register  
**Expected Result:** User account created without newsletter subscription

**6. Assumptions and Dependencies**

* User has a stable internet connection.
* Application server is up and running.
* Validations follow standard nopCommerce business rules.

**7. References**

* nopCommerce Demo Register Page – https://demo.nopcommerce.com/register
* IEEE Standard for SRS Documentation